

# the CINEMA series

CARY AUDIO DESIGN



Cinema 11a



Model 7.250



Cinema 11v

*Cary Audio Design...*

*offers a true*



Cinema 11a



Cinema 11v



Model 7.250

## THE CINEMA SERIES

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A natural choice for the surround sound system in your home.

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Cinema 11a

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After nearly two decades of continuous development and design of audio amplifiers, Cary has become famous for the sound reproduction quality of our audio components.

We've been developing Cinema Series components for more than seven years. We use the same criteria for sound track reproduction as we have for stereo music playback.

When approaching the design phases of our DVD players, surround sound processors, and power amplifiers, we enhance and expand on our areas of expertise and achievement.

We believe the inclusion of a video image with fantastic sound can be a thrilling and involving experience that brings pleasure to all who enjoy surround sound movies, concert disks, or multi-channel music.

*cinematic experience*

*in the comfort of your own home.*



We are film lovers who value the sound quality of the film score and dialogue. Whether it's the sweeping vista evoked by the sound track of *Lawrence of Arabia*,

or the nervous tension created by the brass and drums used in the *Lord of the Rings*, you'll thrill and delight your friends and family when using Cary's Cinema Series surround sound components.

# *audio and video processors*

## CINEMA 11a



The Cinema 11a is the ultimate in home theater audio processors. Utilizing the Cirrus Logic CS 49700 series chipset and HDMI v1.3, the Cinema 11a has the ability to properly decode and playback both the raw bit stream and lossless linear PCM signals from the latest high resolution formats, including Dolby Tru HD, Dolby Digital Plus, DTS-HD High Resolution Audio, and DTS-HD Master Audio. The Cinema 11a has the ability to set separate Listener Profile speaker settings for playback of Music and Movies. The Cinema 11a uses the best available components in the audio circuit, resulting in extraordinary sound quality, which is a trademark of Cary Audio Design products. The Cinema 11a contains an HD radio tuner for the highest resolution signals from FM broadcasts. Without question, the Cinema 11a is the highest performing home theater processor available today.

### SPECIFICATIONS . . .

Decoding Ability	Dolby True HD Dolby Digital Plus DTS-HD Master Audio DTS-HD High Resolution Audio Dolby Digital Dolby Pro Logic IIx for movies and music Dolby Digital EX DTS ES 6.1 Discrete DTS NEO 96/24 for movies and music Matrix Surround for 5.1, 6.1 or 7.1
Inputs	7 RCA analog stereo input pairs 1 XLR analog stereo input pair 1 XLR digital input 7 RCA coaxial digital inputs 7 TOSLINK digital inputs 2 HDMI inputs
Multi-channel Analog Input	7.1 analog bypass input set for multi-channel playback
Outputs	Main Front pair, Center Front, Surround Back pair or Center Surround, Surround pair, Subwoofer, can have 5, 6 or 7 speakers & subwoofer, RCA and XLR connections, 1 HDMI output. 2nd zone output: 1 digital output, 1 RCA analog stereo pair
Frequency Response	2 Hz - 96 kHz
Amplitude Linearity	+/- 0.2 dB (20 Hz - 20 kHz)
Phase Linearity	3 degrees (20 Hz - 20 kHz)
Dynamic Range	115 dB (1 kHz)
Signal-to-Noise Ratio	115 dB (1 kHz)
Channel Separation	>100 (1 kHz)
Total Harmonic Distortion	0.008% (1 kHz)
Rated Output Level	1.0 V RMS (8.0 volts maximum)
Power Input	120 or 240 Volts AC, 50-60 Hz
Power Consumption	25 watts
Weight	25 lbs
Dimensions	17.7" W x 4.5" H x 16.5" D
Detailed Features	Auto setup with a microphone, RS-232 port on back panel for custom install system control, IR repeater input and output, 3 remote DC triggers, Bass and Treble controls with bass management circuit, Variable crossover from 40-140 Hz, in 10 Hz steps, dedicated remote control handset, second zone audio analog and digital outputs.

# audio and video processors

## CINEMA 11v



The Cinema 11v is a high-performance stand alone video processor, switcher, and scaler. Using the latest Faroudja® DCDi video technology, the Cinema 11v includes advanced pixel to pixel motion adaptive de-interlacing and True Life Video Enhancer among its many Advanced Color Management features. The Cinema 11v can convert any video input to any video output. It can also scale any video input to as high as WUXGA 120 Hz 1080p video output. The Cinema 11v has HDMI 1.3 inputs (6) and outputs (2). Although sophisticated in its technology, the Cinema 11v contains simple-to-use menus for easy set-up. With its state-of-the art features, high performance, and ease of use, the Cinema 11v is a natural choice in the most demanding home cinemas.



The Cinema 11v won the  
**"2008 Product of the Year"**  
 award from *Electronic House* magazine.

### SPECIFICATIONS • • •

Integrated 3D Video Decoder	Faroudja IntelliComb Technology Two - 3D Adaptive Comb Filters for Luma-Chroma separation Supports Composite S-Video and Component (including high definition) video input signals Supports all broadcast TV standards - NTSC/PAL/SECAM worldwide
Faroudja DCDi Cinema Forma Conversion	Low Angle De-Interlacing processing Per Pixel Motion Adaptive de-interlacing (MADI) up to 1080i format Format conversion up to WUXGA resolution Panoramic and Anamorphic non-linear scaling Adaptive Media Display Processing for 3:2 and 2:2 video content Special 3:3 and 2:2 film mode for improved film processing
Faroudja True Life Video Enhancer	Adaptive 3D/TNR Noise Reduction High performance sharpening filters with Noise Coring Non-linear Chroma and Luma enhancement Removal of DVD Chroma Upsampling Error (CUE) introduced by some DVD sources
Advanced Color Management (ACM-3D)	ACM-3D allows flexible flesh-tone compensation, blue stretch and other image enhancements ACM-3D ensures full dynamic range is used in video content
Picture-in-Picture (PIP)	Video PIP over video background Side by side (PBP) window support DCDi Edge
Output Formats	1080p @ 120 Hz WUXGA output
Other Features	Video resolution settings: 480p, 540p, 576p, 720p-50, 720p-60, 1080i-50, 1080i-60, 1080p-24, 1080p-25, 1080p-50, 1080p-60, 1080p-120, 640 x 480, 800 x 600, 848 x 480, 852 x 480, 856 x 480, 960 x 540, 1024 x 576, 1024 x 1024 ALIS, 1280 x 720, 1280 x 768, 1280 x 1024, 1360 x 768, 1366 x 768, 1368 x 768, 1400 x 768, 1400 x 1050, 1440 x 864, 1440 x 960, 1440 x 1152, 1920 x 1080, 1920 x 1200, Integrated I25 Audio Delay to exact audio and video synchronization, HDMI 1.3 generation inputs (6) and outputs (2) RGB video outputs, Component video output, Five assignable audio inputs, one analog, two Toslink, two coaxial digital, Two digital audio outputs, one coaxial, one Toslink Cary Digi-link system connector for combination with the Cinema 11 Surround Sound Processor. Dual RS 232 ports for system control and update capabilities. Rear panel IR input and output plus dual 12 volt remote triggers, Eight each assignable S-Video and Composite video inputs (17 video inputs total). Removable AC power cord
Power Consumption	25 watts
Weight	25 lbs
Dimensions	17.7" W x 4.5" H x 16.5" D



# dvd players

## DVD 7



The DVD 7 delivers stunning video and sonic quality in an all-out assault on current state-of-the-art movie reproduction. If you are a movie lover with a large video library, this is the DVD player for you. The newest video displays can accept a video input of 1080p, and the DVD 7 can offer this setting with either HDMI, RGB or progressive scan video outputs. It also features 480i interlaced video outputs with composite video, S-Video and component video connections. The DVD 7 will effortlessly drive six video displays at the same time from its three "Always Active" video output sections. Resolution settings of 480i, 480p, 720p, 1080i and 1080p are linked in the HDMI and the RGB sections. The component video settings of 480p, 720p, 1080i and 1080p are independent of these HDMI/RGB settings. The stereo analog outputs can be either fixed level or variable in level by choice in the set up menu. The DVD 7 uses Burr Brown 1792u DAC chips for the critical digital to analog conversion, like the 'award winning' line of Cary Audio CD players.



The DVD 7 dvd player won the  
"2006 Product of the Year"  
award from *Electronic House* magazine.



The DVD 7 dvd player won the  
"2007 Exc!te"  
award from *CustomerRetailer* magazine.



### SPECIFICATIONS • • •

#### VIDEO

Playback System	DVD Video/Video CD/CD/DVD-RW DVD+RW/CD-RW
Video DAC chips	HDMI/RGB/CV (3 Video chip sets) Dual Faroudja Video Format Converter/HDMI Dual 12 bit/216 MHz/RGB 12 bit/108 mHz Component Video (CV)
Video S/N	78.5 dB
Video Signal Resolution	540 TV lines, DVD
Signal Format System	PAL/NTSC
Composite Video Output	1.0 Volt peak to peak, 75 Ohm, sync negative
S-Video	Luminance Signal 1.0 Volt peak to peak, 75 Ohm load Color Signal 0.286 Volt peak to peak, 75 Ohm load
Component Video Output	Y Output Level 1.0 Volt p-p, 75 Ohm load Pb Output Level 0.7 Volt p-p, 75 Ohm load Pr Output Level 0.7 Volt p-p, 75 Ohm load

#### AUDIO

Master Clock Jitter	Below measurable levels
Digital/Analog Converters	Burr Brown PCM 1792u
Analog Filter	Third Order Bessel
Analog Outputs	RCA, XLR stereo
Frequency Response	2-22 kHz Fs = 48 kHz 2-44 kHz, Fs = 96 kHz
Amplitude Linearity	0.1 dB (20-20 kHz)
Phase Linearity	3.0 degrees (20-20 kHz)
Dynamic Range	120 dB (1 kHz)
Signal to Noise Ratio	120 dB (1 kHz)
Channel Separation	108 dB (1 kHz)
THD	0.0008% (1 kHz)
Audio Output Level	2.2 V RMS RCA, 4.4 volts XLR

#### DIGITAL AUDIO OUTPUT

Coaxial Digital Output	Dolby Digital/DTS/LPCM 200 mV RMS @ 75 Ohms
Optical Digital Output	Dolby Digital/DTS/Toslink
AC Power	117/234 Volts AC, by market
Power Consumption	32 watts - Operation 5 watts - Standby
Video Output Modes	Component Video: 480i, 480p, 720p, 1080i, 1080p HDMI/RGB + HV: 480i, 480p, 720p, 1080i, 1080p, 800x600, 1024x768, 1280x1024, 1366x768
Chassis	Black enamel steel chassis, silver anodized aluminum front panel (black optional)
Weight	35 lbs
Dimensions	18" W x 4" H x 14" D

# *dvd players*

## DVD 8



The DVD 8 is an amazing all format disk player. The excellent sound quality is matched with a great picture. It will scale video signal outputs to as high as 720p or 1080i, offering both stereo and 5.1 analog audio outputs. It has HDMI for ease of use with new HD flat panel displays, as well as component video, S-Video and composite video outputs. The sleek style and overall performance of the DVD 8 will appeal to all home cinema fans and to audiophiles who want the multi-channel playback capabilities the DVD 8 offers.

The range of multi-channel DVD Audio disks has increased quite a bit in recent years. The live concert video disks that are coming out now are fun and they look great. The multi channel SACD disks have expanded in numbers as well. These new disk releases have led us to design and offer the DVD 8 player. It will be a great way to have flexibility, excellent sound quality, and convenience as a playback component in anyone's home audio or video system. Owners will be thrilled with the all format sound and vision experience of the DVD 8.

### SPECIFICATIONS • • •

#### VIDEO

Playback System	DVD Video/Video CD/CD/DVD-RW DVD+RW/CD-RW, DVD-Audio, SACD
Video DAC chip	12 bit/108 mHz
Video S/N	70 dB
Video Signal Resolution	540 TV lines, DVD
Signal Format System	PAL / NTSC
Composite Video Output	1.0 Volt peak to peak, 75 Ohm, sync negative
S-Video	Luminance Signal 1.0 Volt peak to peak, 75 Ohm load Color Signal 0.286 Volt peak to peak, 75 Ohm load
Component Video Output	Y Output Level 1.0 Volt p-p, 75 Ohm load Pb Output Level 0.7 Volt p-p, 75 Ohm load Pr Output Level 0.7 Volt p-p, 75 Ohm load

#### AUDIO

Master Clock Jitter	Below measurable levels
Digital/Analog Converters	24 bit/192 kHz Cirrus Logic 4360
Analog Outputs	RCA 5.1 & 2 channel, separate output sets
Frequency Response	2-22 kHz Fs = 48 kHz 2-44 kHz, Fs = 96 kHz
Amplitude Linearity	0.5 dB (20-20 kHz)
Phase Linearity	3.0 degrees (20-20 kHz)
Dynamic Range	106 dB (1 kHz)
Signal to Noise Ratio	106 dB (1 kHz)
Channel Separation	>95 dB (1 kHz)
THD	0.008% (1 kHz)
Audio Output Level	2.0 V RMS

#### DIGITAL AUDIO OUTPUT

Coaxial Digital Output	Dolby Digital/DTS/LPCM 200 mV RMS @ 75 Ohms
Optical Digital Output	Dolby Digital/DTS/Toslink
AC Power	100-240 Volts AC
Power Consumption	20 watts - Operation 3 watts - Standby
Video Output Modes	Component Video: 480i, 480p, 720p, 1080i Composite video, S-Video: 480i interlaced HDMI with HDCP: 480i, 480p, 720p, 1080i
Chassis	Black steel chassis, silver anodized aluminum front panel (black optional) '2 U' rack mount face plate optional, available by special order
Weight	15 lbs
Dimensions	17.5" W x 2" H x 10.5" D

# amplifiers



All the Cinema Series power amplifiers feature heavy duty construction with rugged power supplies. We believe that the power supply has a tremendous effect on the final sound reproduction quality of an amplifier.

The Cinema Series power amplifiers have won awards from *The Absolute Sound*, *The Perfect Vision* and *Home Theater* magazines.



## Model 2.125

The Model 2.125 power amplifier design offers high output power and high efficiency in an attractive small chassis. The Model 2.125 is rated at 125 watts per channel into an 8 ohm load, and it is capable of doubling the output power to 250 watts into a 4 ohm load. This type of performance is only possible with rugged, over-designed power supplies. The output terminals are designed for bi-wire operation. Efficient, musical, and cool running are all great design aspects of the Model 2.125 power amplifier.

### SPECIFICATIONS . . .

Circuit Type	Solid State, Class D
Power Output	2 x 125 watts @ 8 Ohms 250 watts @ 4 Ohms
Input Sensitivity	.7 Volts
Frequency Response	+/- 0.5 db from 20 Hz to 50 kHz
Signal to Noise	>-80 dB CCIR
Input Impedance	100K Ohms - RCA 200K Ohms - XLR
Voltage Gain	27.2 dB
AC Power Requirements	110/117 or 220/234 Volts AC @ 50-60 Hz
Break-In Time	100 hours of playing time
Finish	Black epoxy coated steel chassis Silver anodized aluminum faceplate (black optional)
Weight	20 lbs
Dimensions	4.5" H x 17.7" W x 13" D



## Model 7.125

The Model 7.125 power amplifier is the perfect foundation for a home stereo or theater system. In addition to the awesome power, 125 Watts/8 ohms; 190 Watts/4 ohms, it delivers flawless reproduction of musical detail and subtle special effects. It includes high-quality, gold-plated RCA and XLR input connectors, and high-quality, heavy-duty speaker output connectors. A trigger input connector allows it to be powered on and off automatically. It's easy to use, delivers outstanding mechanical performance, and its sonic properties make it a natural choice for sophisticated, demanding home theaters.

### SPECIFICATIONS . . .

Circuit Type	Solid State, Class A/B
Power Output	7 x 125 watts @ 8 Ohms from 20 Hz to 20 KHz 7 x 190 watts @ 4 Ohms from 20 Hz to 20 KHz
Input Sensitivity	1.0 Volts
Frequency Response	20 Hz - 20 KHz +/-0.1 dB
Signal to Noise	>100 dB, "A" Weighted
Input Impedance	Nominal 50K Ohms
Voltage Gain	28 dB
AC Power Requirements	117/234 Volts AC @ 50/60 Hz
Break-In Time	100 hours of playing time
Finish	Black epoxy coated steel chassis Silver anodized aluminum faceplate (black optional)
Weight	55 lbs
Dimensions	7" H x 17.7" W x 16.6" D



# amplifiers

Designed as multi-channel audiophile power amplifiers, they offer high power, great control, and excellent audio reproduction. The solid aluminum anodized front panel is available in black or silver colors.



## Model 7.250

The Model 7.250 power amplifier is the perfect foundation for a home stereo or theater system. In addition to the awesome power, 250 Watts/8 ohms; 400 Watts/4 ohms, it delivers flawless reproduction of musical detail and subtle special effects. It includes high-quality, gold-plated RCA and XLR input connectors, and high-quality, heavy-duty speaker output connectors. A trigger input connector allows it to be powered on and off automatically. It's easy to use, delivers outstanding mechanical performance, and its sonic properties make it a natural choice for sophisticated, demanding home theaters.

### SPECIFICATIONS . . .

Circuit Type	Solid State, Class A/B
Power Output	7 x 250 watts @ 8 Ohms from 20 Hz to 20 KHz 7 x 400 watts @ 4 ohms from 20 Hz to 20 KHz
Input Sensitivity	1.25 Volts RMS Unbalanced 2.5 Volts Balanced
Frequency Response	20 Hz - 20 KHz +/- 0.1 dB
Signal to Noise	>100 dB, "A" Weighted
Input Impedance	>10K Ohms - unbalanced >20K Ohms - Balanced
Voltage Gain	28 dB
AC Power Requirements	117/234 Volts AC @ 50/60 Hz
Break-In Time	100 hours of playing time
Finish	Black epoxy coated steel chassis Silver anodized aluminum faceplate (black optional)
Weight	105 lbs
Dimensions	8.7" H x 17.7" W x 19.6" D

Our power amplifiers have wide frequency response bandwidth circuits to ensure they faithfully play the music and soundtracks of your favorite CD disks, DVD live concerts and movie soundtracks.



## Cinema 2

The Cinema 2 power amplifier is a stereo variant of the Cinema 5 power amplifier. The Cinema 2 has the same circuit design, musical reproduction, and power ratings per channel (200 watts per channel into an 8 ohm load and 350 watts into a four ohm load) as the Cinema 5. It can be used as a stand alone amplifier or the final two channels of a high powered seven channel home cinema system. The rear panel has XLR and RCA inputs and a remote turn on trigger.

### SPECIFICATIONS . . .

Circuit Type	Solid State, Class A/B
Power Output	2 x 200 watts @ 8 Ohms 2 x 350 watts @ 4 Ohms
Input Sensitivity	1.4 Volts
Frequency Response	10 Hz to 50 kHz +/- 0.1 dB
Signal to Noise	>100 dB, "A" Weighted
Input Impedance	44K Ohms - RCA unbalanced 91K Ohms - Balanced (XLR)
Voltage Gain	27 dB
AC Power Requirements	117/234 Volts AC @ 50/60 Hz
Break-In Time	100 hours of playing time
Finish	Black epoxy coated steel chassis Silver anodized aluminum faceplate (black optional)
Weight	40 lbs
Dimensions	5" H x 17.7" W x 15.5" D

# amplifiers



## Cinema 5

The Cinema 5 power amplifier is a five-channel design rated at 200 watts per channel into an 8 ohm load and 350 watts into a four ohm load. The rear panel has XLR and RCA inputs and a remote turn on trigger. We voiced the Cinema 5 with a full-range electrostatic speaker during final development so it is stable with either low impedance or demanding speaker loads. This amplifier has been awarded multiple 'Best Buy' ratings and Multi-Channel Amplifier of the Year awards.

### SPECIFICATIONS • • •

Circuit Type	Solid State, Class A/B
Power Output	5 x 200 watts @ 8 Ohms 5 x 350 watts @ 4 Ohms
Input Sensitivity	1.4 Volts
Frequency Response	10 Hz to 50 kHz +/- 0.1 dB
Signal to Noise	>100 dB, "A" Weighted
Input Impedance	44K Ohms - RCA unbalanced 91K Ohms - Balanced (XLR)
Voltage Gain	27 dB
AC Power Requirements	117/234 Volts AC @ 50/60 Hz
Break-In Time	100 hours of playing time
Finish	Black epoxy coated steel chassis Silver anodized aluminum faceplate (black optional)
Weight	80 lbs
Dimensions	6.25" H x 17.7" W x 19.5" D



## Cinema 7B

The Cinema 7B is a seven-channel power amplifier rated at 100 watts per channel into an 8 ohm load or 175 watts per channel into a 4 ohm load. The rear panel has XLR and RCA inputs and a remote turn on trigger. Our Cinema 7B power amplifier won the 2005 RAVE Award for the Best Amplifier under \$3,000 from Home Theater magazine.

### SPECIFICATIONS • • •

Circuit Type	Solid State, Class A/B
Power Output	7 x 100 watts @ 8 Ohms 7 x 150 watts @ 4 Ohms
Input Sensitivity	1.0 Volts
Frequency Response	5 Hz to 40 kHz +/- 0.1 dB
Signal to Noise	>110 dB, "A" Weighted
Input Impedance	33 K Ohms - RCA unbalanced 91K Ohms - Balanced (XLR)
Voltage Gain	28dB
AC Power Requirements	117/234 Volts AC @ 50/60 Hz
Break-In Time	100 hours of playing time
Finish	Black epoxy coated steel chassis Silver anodized aluminum faceplate (black optional)
Weight	66 lbs
Dimensions	6.25" H x 17.7" W x 19.5" D

# *about cary audio design*

## **design philosophy**

Since sound was added to film, the soundtrack has had a primary role in the experience of home movie viewing. Today's home cinema surround sound experience totally envelops you in the sound field as it is envisioned by the director of the film. With the main characters' voices firmly established in the front of the room, the other speakers are free to create suspense, drama and excitement that make home cinema so thrilling to watch and share with family and friends. We strive to recreate this experience in as true-to-life a way as is technically possible. Our attention to sonic realism is our way of being faithful to the original intent of the movie makers.

## **history**

Founded in 1989, Cary Audio Design is a unique audio company. Cary's roots are in high-end, offering stereo vacuum tube-based electronics from the beginning. We have become famous for CD and DVD players in the last ten years, expanding into home cinema with the Cinema Series product line.

The Cinema line offers breathtaking video and sound quality for home theater lovers. The Cinema products are easily integrated into complete home automation systems. Cinema Series is a natural choice for surround sound home theater systems. Our power amplifiers have won multiple 'Best Buy' and 'Product of the Year' awards over the past four years, and the Cinema 11v player has been named '2008 Product of the Year' by *Electronic House* magazine.

## **product installation**

We are technology partners with whole-house automation companies including Crestron and AMX. The Cinema Series power amplifiers have 'remote 12-volt turn-on triggers' on the rear panels. The '2006 Product of the Year' and '2007 Exc!te' award winner DVD 7, the DVD 8 CD/SACD/DVD/DVD-Audio player, the new Cinema 11a surround sound preamplifier, and '2008 Product of the Year' Cinema 11v have discrete remote control codes for custom installation integration. We aim to be home user and custom installer friendly with the Cinema Series components.



Cinema 11a



Model 7.250



Cinema 11v

1020 Goodworth Drive  
 Apex, NC 27539  
 919-355-0010  
 fax 919-355-0013  
[caryaudio.com](http://caryaudio.com)  
[info@caryaudio.com](mailto:info@caryaudio.com)